

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2002	
BUDGET ACTIVITY 03 - Advanced Technology Development				PE NUMBER AND TITLE 0603436F Transformational Wideband MILSATCOM				PROJECT A006	
COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
A006 Transformational Wideband MILSATCOM	0	0	195,000	435,000	436,000	194,000	0	0	0
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

Note: 0603436, Transformational Wideband MILSATCOM, 63A006, Transformation Wideband MILSATCOM PE was created in order to Transform the Advanced Wideband System (PEs 63845F and 33602F) to incorporate an accelerated schedule and capabilities such as laser communications and additional protection for tactical users based on the Transformational Communications Architecture study.

(U) **A. Mission Description**
Transformational Wideband MILSATCOM(TWM) provides an opportunity to transform the current Advanced Wideband MILSATCOM System (PE's 0603845F and 0303602F) TWM programs for an accelerated schedule and capabilities such as laser communications and additional protection for tactical users (all within the emerging Transformational Communications Architecture study). TWM will initiate in FY2003 an Advanced Wideband System (AWS) that incorporates interoperable laser communications and is designed to meet the needs of the defense and intelligence communities for wideband tactical, protected tactical, broadcast, and relay communications; plan for the first launch in FY 2009. This PE addresses only acceleration of the design of the first two satellites which are accounted for in PE0603845F, and the additional capabilities. (Acceleration of procurement effort is reflected in PE 0603845F).

(U) **FY 2001 (\$ in Thousands)**
(U) \$0 No Activity
(U) \$0 Total

(U) **FY 2002 (\$ in Thousands)**
(U) \$0 No Activity
(U) \$0 Total

(U) **FY 2003 (\$ in Thousands)**
(U) \$5,000 Program Support. This New Start program is an effort to transform the current AWS by integrating laser communications into system development.
(U) \$20,000 Technical Support
(U) \$170,000 System Definition

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(U) **A. Mission Description Continued**

(U) FY 2003 (\$ in Thousands) Continued

(U) \$195,000 Total

(U) **B. Budget Activity Justification**

Funding is in budget activity 3, Science and Technology, since this effort will support the transformation of the current Advanced Wideband System in order to incorporate laser communications.

(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>
(U) Previous President's Budget				
(U) Appropriated Value				
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions				
b. Small Business Innovative Research				
c. Omnibus or Other Above Threshold Reprogram				
d. Below Threshold Reprogram				
e. Rescissions				
(U) Adjustments to Budget Years Since FY 2002 PBR			195,000	
(U) Current Budget Submit/FY 2003 PBR			195,000	1,260,000

(U) **Significant Program Changes:**

FY 2003 funds added in order to begin the transformation of the current Advanced Wideband System.

(U) **D. Other Program Funding Summary (\$ in Thousands)**

(U) PE0603845F & PE0303602F contain the remaining funds for the Advanced Wideband Program

(U) **E. Acquisition Strategy**

Developing acquisition strategy during FY02 to add on-orbit laser comm capability. Expect to conduct market analysis to include evaluating industrial capability, currently available technology, use of advanced concept technology demonstrations, etc. Anticipate conducting full and open competition to the maximum extent feasible.

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<p>(U) <u>F. Schedule Profile</u></p> <p>(U) This effort provides for first launch in FY 2009. The Advanced Wideband System (AWS) will incorporate interoperable laser cross links.</p>		
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